

PC-0025 CIP



<110> Walker, Michael, G.

<120> Ankyrin Repeat Domain 2 Protein

<130> PC-0025 CIP

<140> To Be Assigned

<141> Herewith

<160> 12

<170> PERL Program

<210> 1

<211> 329

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5578191CD1

<400> 1

Met	Glu	Asp	Ser	Glu	Ala	Val	Gln	Arg	Ala	Thr	Ala	Leu	Ile	Glu
1				5					10					15
Gln	Arg	Leu	Ala	Gln	Glu	Glu	Glu	Asn	Glu	Lys	Leu	Arg	Gly	Asp
				20					25					30
Thr	Arg	Gln	Lys	Leu	Pro	Met	Asp	Leu	Leu	Val	Leu	Glu	Asp	Glu
				35					40					45
Lys	His	His	Gly	Ala	Gln	Ser	Ala	Ala	Leu	Gln	Lys	Val	Lys	Gly
				50					55					60
Gln	Glu	Arg	Val	Arg	Lys	Thr	Ser	Leu	Asp	Leu	Arg	Arg	Glu	Ile
				65					70					75
Ile	Asp	Val	Gly	Gly	Ile	Gln	Asn	Leu	Ile	Glu	Leu	Arg	Lys	Lys
				80					85					90
Arg	Lys	Gln	Lys	Lys	Arg	Asp	Ala	Leu	Ala	Ala	Ser	His	Glu	Pro
				95					100					105
Pro	Pro	Glu	Pro	Glu	Glu	Ile	Thr	Gly	Pro	Val	Asp	Glu	Glu	Thr
				110					115					120
Phe	Leu	Lys	Ala	Ala	Val	Glu	Gly	Lys	Met	Lys	Val	Ile	Glu	Lys
				125					130					135
Phe	Leu	Ala	Asp	Gly	Gly	Ser	Ala	Asp	Thr	Cys	Asp	Gln	Phe	Arg
				140					145					150
Arg	Thr	Ala	Leu	His	Arg	Ala	Ser	Leu	Glu	Gly	His	Met	Glu	Ile
				155					160					165
Leu	Glu	Lys	Leu	Leu	Asp	Asn	Gly	Ala	Thr	Val	Asp	Phe	Gln	Asp
				170					175					180
Arg	Leu	Asp	Cys	Thr	Ala	Met	His	Trp	Ala	Cys	Arg	Gly	Gly	His
				185					190					195
Leu	Glu	Val	Val	Lys	Leu	Leu	Gln	Ser	His	Gly	Ala	Asp	Thr	Asn
				200					205					210
Val	Arg	Asp	Lys	Leu	Leu	Ser	Thr	Pro	Leu	His	Val	Ala	Val	Arg
				215					220					225
Thr	Gly	Gln	Val	Glu	Ile	Val	Glu	His	Phe	Leu	Ser	Leu	Gly	Leu
				230					235					240
Glu	Ile	Asn	Ala	Arg	Asp	Arg	Glu	Gly	Asp	Thr	Ala	Leu	His	Asp

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	245		250		255
Ala Val Arg Leu Asn Arg Tyr Lys Ile	Ile Lys Leu Leu Leu Leu				
	260		265		270
His Gly Ala Asp Met Met Thr Lys Asn	Leu Ala Gly Lys Thr Pro				
	275		280		285
Thr Asp Leu Val Gln Leu Trp Gln Ala	Asp Thr Arg His Ala Leu				
	290		295		300
Glu His Pro Glu Pro Gly Ala Glu His	Asn Gly Leu Glu Gly Pro				
	305		310		315
Asn Asp Ser Gly Arg Glu Thr Pro Gln	Pro Val Pro Ala Gln				
	320		325		

<210> 2

<211> 1158

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5578191CB1

<400> 2

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cgagcagcgg ctggcacagg aggaggagaa tgagaaactc cgaggagaca cagccagaa 120
gctgccccatg gacttgctgg tgctggagga tgagaagcac cacggggctc agagtgcagc 180
cctgcagaag gtgaagggcc aagagcggtg gcgcaagacg tccctggacc tgcggcgagg 240
gatcatcgat gtgggcggga tccagaacct catcgagctg cggaagaaac gcaagcagaa 300
gaagcggggac gctctggccg cctcgcatga gccgccccca gagcccagg agatcactgg 360
ccctgtggat gaggagacct tcctgaaagc tgcggtggag gggaaaatga aggtcattga 420
gaagttcctg gctgacgggg ggtcagccga cacgtgagac cagttccgtc ggacagcact 480
gcaccgagct tccctggaag gccacatgga aatcctggag aagcttctag ataatggggc 540
cactgtggac ttccaggatc ggctggactg cacagccatg cattgggcct gccgcggggg 600
ccacttagag gtggtgaaac ttctgcaaag ccatggagca gacaccaatg tgagggataa 660
gctgctgagc acccgcgtgc acgtggcagt ccggacaggg caggtggaga ttgtggagca 720
ctttctatcc ctgggcctgg aaatcaatgc cagagacagg gaaggggata ctgccctgca 780
tgacgctgtg aggtcacaac gctacaaaat catcaaaact ctgctcctgc atggggctga 840
catgatgacc aagaacctgg caggaaagac cccgacggac ctggtgcagc tctggcaggc 900
tgatacccg cagccctgg agcatcctga gccgggggct gagcataacg ggctggaggg 960
gcctaatagat agtgggagag agaccctca gcctgtgcca gcccagtgaa tgcgtgcccc 1020
agcccagcca gctaccagc cctctctgt gtgcagccgg agggtcctaa gaatggctcc 1080
cggagctaac tgagggccca gccttttttc tgcatgatcc aggagcacat accacaaact 1140
accacaataa aaaagctg 1158
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<210> 3

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 972118R6

<400> 3

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gacggcacca tggaggactc cgaggcggtg cagagggcca cagcgctcat cgagcagcgg 60
ctggcacagg aggaggagaa tgagaaactc cgaggagacg cagccagaa gctgccccatg 120
gacttgctgg tgctggagga tgagaagcac cacggggctc agagtgcagc cctgcagaag 180
```

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```
gtgaagggcc aagagcgcgt gcgcaagacg tccctggacc tgcggcgagg gatcatcgat 240
gtgggcggga tccagaacct catcgagctg cggaagaaac gcaagcagaa gaagcgggac 300
gctctggccg cctcgcatga gccgccccca gagcccgagg agatcactgg ccctgtggat 360
gaggagacct tctgaaagc tgcgggtggag gggaaacatg aaggtcattg agaagttcct 420
ggctgacggg gggtcagccg acacgtgcga ccagttccgt cggacagcac tgcaccgagc 480
ttccctggaa gggccacatg gaaatcctgg agaagcttct agataatggg gccactgtgg 540
acttccagga tcggctggac tgcacagcca tgcatt 576
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<210> 4

<211> 253

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 4852018H1

<400> 4

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ctggccctgt ggatgaggag accttctga aagctgcggt ggaggggaaa atgaaggtca 60
ttgagaagtt cctggctgac ggggggtcag ccgacacgtg cgaccagttc cgtcggacag 120
cactgcaccg agcttccctg gaaggccaca tggaaatcct ggagaagctt ctagataatg 180
gggccactgt ggacttccag gatcggctgg actgcacagc catgcattgg gcctgccgag 240
ggggccactt aga 253
```

<210> 5

<211> 569

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 972118T6

<400> 5

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gctcctggat catgcagaaa aaaggctggg ccctcagtta gctccgggag ccattcttag 60
gaccctccgg ctgcacacag agaggggctg ggtagctggc tgggctgggg cagcattca 120
ctgggctggc acaggctgag ggggtctctg cccactatca ttagggccct ccagcccgtt 180
atgctcagcc cccggctcag gatgctccag ggcgtgccgg gtatcagcct gccagagctg 240
caccaggtcc gtcggggtct ttctgccag gttcttggtc atcatgtcag ccccatgcag 300
gagcagcagt ttgatgattt tgtagcgggt gagcctcaca gcgtcatgca gggcagtatc 360
cccttccctg tctctggcat tgatttccag gccagggat agaaagtgtc ccacaatctc 420
cacctgccct gtccggactg ccacgtgcag cggggtgctc agcagcttat cctcacatt 480
ggtgtctgct ccattggctt gcagaagttt caccacctct aagtggcccc cgcggcaggc 540
ccaatgcatt gctgtgcagt ccagccgat 569
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<210> 6

<211> 330

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 7350215H1

<400> 6

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acctggcagg aaagaccccc acggacctgg tgcagctctg gcaggctgat acccggcacg 60
```

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```
ccctggagca tcctgagccg ggggctgagc ataacgggct ggaggggcct aatgatagtg 120
ggcgagagac ccctcagcct gtgccagccc agtgaatgcg tgccccagcc cagccagcta 180
cccagccct ctctgtgtgc agccggaggg tcctaagaat ggctcccgga gctaactgag 240
ggcccagcct tttttctgca tgatccagga gcacatacca caataaaaaa 300
gctgtttttg ctaattgcga tgttcatttc 330
```

<210> 7  
<211> 255  
<212> DNA  
<213> Rattus norvegicus

<220>  
<221> misc\_feature  
<223> Incyte ID No: 700911986H1

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<400> 7
tggaaggcac catggagggt cccgaggctg tgcagagagc cacagagctc atcgagcagc 60
ggcttgccga ggaggaagag actgagaaac ttgaagagc cactcctggg aagacgtcca 120
tggaatgct agtgctagag gacgagaagc gcctcggggg gcagagtcct gctttacaaa 180
agggttaagg ccaagagcgc gtgcgcaaga catccctgga cttgcgacgt gagatcattg 240
acgtgggcgg gatcc 255
```

<210> 8  
<211> 275  
<212> DNA  
<213> Rattus norvegicus

<220>  
<221> misc\_feature  
<223> Incyte ID No: 701144158H1

```
<400> 8
gcacatggag ggtcccagag ctgtgcagag agccacagag ctcatcgagc agcggcttgc 60
cgaatgaagg agaagactga gaaacttcga agagccactc ctgggaagac gtccatggac 120
atgctagtgc tagaggacga gaagcgctg ggggtgcagag tcctgcttta caaaagggtta 180
agggccaaga gcgcgtgcgc aagacatccc tggacttgcg acgtgagatc attgacgtgg 240
gcgggatcca gaacctcata gaactgagga aaaaa 275
```

<210> 9  
<211> 315  
<212> DNA  
<213> Rattus norvegicus

<220>  
<221> misc\_feature  
<223> Incyte ID No: 700188047H1

<220>  
<221> unsure  
<222> 54, 80, 121  
<223> a, t, c, g, or other

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<400> 9
attcctgaaa gcagcgggtg aggggaaaat caaagtcatt gacaagtacc tggagacgg 60
agggttcggca gacacctgtn atgagttccg tcggacagca ctgcatcggg cctccctgga 120
nngacacatg gagatactgg agaaacttct ggagaatggg gccaccgtgg acttccagga 180
```

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tgcctggac tgcacagcca tgcactgggc ctgccgtgga ggccacctgg aggtggtgaa 240  
atcttgcaaa gtcggggggc caacaccgac gtgagagaca agctatgagc actcccctgc 300  
atgtgggcgt ccgta 315

<210> 10  
<211> 207  
<212> DNA  
<213> Rattus norvegicus

<220>  
<221> misc\_feature  
<223> Incyte ID No: 700913268H1

<400> 10  
atcaatgccca aagacagaga aggggacagt gccctgcatg atgccgtgag actcaaccgc 60  
tacaaaatca tcaaactgct gctcttgcac ggggcagaca tgatggctaa gaatatggcg 120  
gggaagaccc ctaccgacct ggtccagctg tggcaagcag acaccgggca tgccctggag 180  
caccctgaac cagaatcaga gcagaac 207

<210> 11  
<211> 328  
<212> PRT  
<213> Mus musculus

<220>  
<221> misc\_feature  
<223> Incyte ID No: g9501360

<400> 11  
Met Glu Gly Pro Glu Ala Val Gln Arg Ala Thr Glu Leu Ile Glu  
1 5 10 15  
Gln Arg Leu Ala Gln Glu Glu Glu Thr Glu Lys Leu Arg Arg Ser  
20 25 30  
Ala Pro Gly Lys Leu Ser Met Asp Met Leu Val Leu Glu Glu Glu  
35 40 45  
Lys Arg Leu Gly Val Gln Ser Pro Ala Leu Gln Lys Val Lys Gly  
50 55 60  
Gln Glu Arg Val Arg Lys Thr Ser Leu Asp Leu Arg Arg Glu Ile  
65 70 75  
Ile Asp Val Gly Gly Ile Gln Asn Leu Ile Glu Leu Arg Lys Lys  
80 85 90  
Arg Lys Gln Lys Lys Arg Asp Ala Leu Ala Ala Gln Glu Pro  
95 100 105  
Pro Pro Glu Pro Glu Glu Ile Thr Gly Pro Val Asn Glu Glu Thr  
110 115 120  
Phe Leu Lys Ala Ala Val Glu Gly Lys Met Lys Val Ile Asp Lys  
125 130 135  
Tyr Leu Ala Asp Gly Gly Ser Ala Asp Thr Cys Asp Glu Phe Arg  
140 145 150  
Arg Thr Ala Leu His Arg Ala Ser Leu Glu Gly His Met Glu Ile  
155 160 165  
Leu Glu Lys Leu Leu Glu Asn Gly Ala Thr Val Asp Phe Gln Asp  
170 175 180  
Arg Leu Asp Cys Thr Ala Met His Trp Ala Cys Arg Gly Gly His  
185 190 195  
Leu Glu Val Val Arg Leu Leu Gln Ser Arg Gly Ala Asp Thr Asn

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200	205	210
Val Arg Asp Lys Leu Leu Ser Thr Pro	Leu His Val Ala Val Arg	
215	220	225
Thr Gly His Val Glu Ile Val Glu His	Phe Leu Ser Leu Gly Leu	
230	235	240
Asp Ile Asn Ala Lys Asp Arg Glu Gly	Asp Ser Ala Leu His Asp	
245	250	255
Ala Val Arg Leu Asn Arg Tyr Lys Ile	Ile Lys Leu Leu Leu Leu	
260	265	270
His Gly Ala Asp Met Met Ala Lys Asn	Leu Ala Gly Lys Thr Pro	
275	280	285
Thr Asp Leu Val Gln Leu Trp Gln Ala	Asp Thr Arg His Ala Leu	
290	295	300
Glu His Pro Glu Pro Glu Ser Glu Gln	Asn Gly Leu Glu Arg Pro	
305	310	315
Gly Ser Gly Arg Glu Thr Pro Gln Pro	Ile Pro Ala Gln	
320	325	

<210> 12  
<211> 328  
<212> PRT  
<213> Mus musculus

<220>  
<221> misc\_feature  
<223> Incyte ID No: g5420272

<400> 12

Met Glu Gly Pro Glu Ala Val Gln Arg Ala Thr Glu Leu Ile Glu	
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20 25 30	
Ala Pro Gly Lys Leu Ser Met Asp Met Leu Val Leu Glu Glu Glu	
35 40 45	
Lys Arg Leu Gly Val Gln Ser Pro Ala Leu Gln Lys Val Lys Gly	
50 55 60	
Gln Glu Arg Val Arg Lys Thr Ser Leu Asp Leu Arg Arg Glu Ile	
65 70 75	
Ile Asp Val Gly Gly Ile Gln Asn Leu Ile Glu Leu Arg Lys Lys	
80 85 90	
Arg Lys Gln Lys Lys Arg Asp Ala Leu Ala Ala Ala Gln Glu Pro	
95 100 105	
Pro Pro Glu Pro Glu Glu Ile Thr Gly Pro Val Asn Glu Glu Thr	
110 115 120	
Phe Leu Lys Ala Ala Val Glu Gly Lys Met Lys Val Ile Asp Lys	
125 130 135	
Tyr Leu Ala Asp Gly Gly Ser Ala Asp Thr Cys Asp Glu Phe Arg	
140 145 150	
Arg Thr Ala Leu His Arg Ala Ser Leu Glu Gly His Met Glu Ile	
155 160 165	
Leu Glu Lys Leu Leu Glu Asn Gly Ala Thr Val Asp Phe Gln Asp	
170 175 180	
Arg Leu Asp Cys Thr Ala Met His Trp Ala Cys Arg Gly Gly His	
185 190 195	
Leu Glu Val Val Arg Leu Leu Gln Ser Arg Gly Ala Asp Thr Asn	
200 205 210	

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Val	Arg	Asp	Lys	Leu	Leu	Ser	Thr	Pro	Leu	His	Val	Ala	Val	Arg	
				215					220					225	
Thr	Gly	His	Val	Glu	Ile	Val	Glu	His	Phe	Leu	Ser	Leu	Gly	Leu	
				230					235					240	
Asp	Ile	Asn	Ala	Lys	Asp	Arg	Glu	Gly	Asp	Ser	Ala	Leu	His	Asp	
				245					250					255	
Ala	Val	Arg	Leu	Asn	Arg	Tyr	Lys	Ile	Ile	Lys	Leu	Leu	Leu	Leu	
				260					265					270	
His	Gly	Ala	Asp	Met	Met	Ala	Lys	Asn	Leu	Ala	Gly	Lys	Thr	Pro	
				275					280					285	
Thr	Asp	Leu	Val	Gln	Leu	Trp	Gln	Ala	Asp	Thr	Arg	His	Ala	Leu	
				290					295					300	
Glu	His	Pro	Glu	Pro	Glu	Ser	Glu	Gln	Asn	Gly	Leu	Glu	Arg	Pro	
				305					310					315	
Gly	Ser	Gly	Arg	Glu	Thr	Pro	Gln	Pro	Ile	Pro	Ala	Gln			
				320					325						